



## SEQUENCE LISTING

RECEIVED

NOV 08 2000

Number

Content

TECH CENTER 1600/2900

SEQ ID No 1	Nucleotides 81-419 of Figure 1
SEQ ID No 2	Full DNA Sequence of Figure 1
SEQ ID No 3	Amino Acids 27-139 of Figure 1
SEQ ID No 4	Full Amino Acid Sequence of Figure 1
SEQ ID No 5	Full DNA Sequence of Figure 3
SEQ ID No 6	Amino Acid Sequence indicated as Reading Frame A in Figure 3
SEQ ID No 7	Amino Acid Sequence indicated as Reading Frame B in Figure 3
SEQ ID No 8	Full DNA Sequence of Figure 21
SEQ ID No 9	Amino Acid Sequence of Figure 23
SEQ ID No 10	Amino Acid Sequence of Figure 24
SEQ ID No 11	DNA Sequence of Splice Variant obtained by using Splice Sites 5'-1 and 3'-1 plus 5'-2 and 3'-3 in Figure 21 (687 bp transcript of Figure 22A)
SEQ ID No 12	DNA Sequence of Splice Variant obtained by using Splice Sites 5'-1 and 3'-2 plus 5'-2 and 3'-3 in Figure 21 (663 bp transcript of Figure 22A)
SEQ ID No 13	DNA Sequence of Splice Variant obtained by using Splice Sites 5'-1 and 3'-3 in Figure 21 (524 bp transcript in Figure 22A)
SEQ ID No 14	DNA Sequence of the Splice Variant obtained by using Splice Sites 5'-1 and 3'-2 plus 5'-2 and 3'-4 in Figure 21 (410 bp transcript in Figure 22A)
SEQ ID No 15	DNA Sequence of Splice Variant obtained by using Splice Sites 5'-1 and 3'-4 in Figure 21 (271 bp transcript in Figure 22A)

SEQUENCE LISTING

RECEIVED

NOV 08 2000

TECH CENTER 1600/2900

<110> Geerts, Hugo  
Masure, Stefan  
Cik, Miroslav  
Meert, Theo  
Ver Donk, Luc

<120> Neurotrophic Growth Factor

<130> 50936/702

<140> 09/357,349

<141> 1999-07-14

<150> 9815283.8

<151> 1998-07-14

<150> 09/248,772

<151> 1999-02-12

<150> 09/327,668

<151> 1999-06-08

<160> 15

<170> PatentIn Ver. 2.0

<210> 1

<211> 339

<212> DNA

<213> Homo sapiens

<400> 1

```
gctggggggcc cgggcagccg cgtcggggca gcggggggcgc ggggctgccg cctgcgctcg 60
cagctgggtgc cgggtgcgcgc gctcggcctg ggccaccgct ccgacgagct ggtgcgtttc 120
cgcttctgca gcggctcctg ccgccgcgcg cgtctctccac acgacctcag cctggccagc 180
ctactgggcg ccggggccct gcgaccgccc ccgggctccc ggcccgtcag ccagccctgc 240
tgccgacca cgcgctacga agcgggtctcc ttcattggacg tcaacagcac ctggagaacc 300
gtggaccgcc tctccgccac cgctgcggc tgccctgggc 339
```

<210> 2

<211> 474

<212> DNA

<213> Homo sapiens

<400> 2

```
cgccgccgca gccttctcgg ccgcgcgcc ccgcgcctgc acccccatct gctcttcccc 60
```

gcgggggccc cgcggcgcgg gctggggggcc cgggcagccg cgctcgggca gcggggggcgc 120  
 ggggctgccg cctgcgctcg cagctggtgc cgggtgcgcgc gctcggcctg ggccaccgct 180  
 ccgacgagct ggtgcgtttc cgcttctgca gcggctcctg ccgccgcgcg cgctctccac 240  
 acgacctcag cctggccagc ctactgggcg ccggggccct gcgaccgcc ccgggctccc 300  
 ggcccgtcag ccagccctgc tgccgacca cgcgctacga agcggctctc ttcattggacg 360  
 tcaacagcac ctggagaacc gtggaccgcc tctccgccac cgctgcggc tgctggggt 420  
 gagggctcgc tccagggtt tgcagactgg acccttaccg gtggctcttc ctgc 474

<210> 3

<211> 113

<212> PRT

<213> Homo sapiens

<400> 3

Ala Gly Gly Pro Gly Ser Arg Ala Arg Ala Ala Gly Ala Arg Gly Cys  
 1 5 10 15

Arg Leu Arg Ser Gln Leu Val Pro Val Arg Ala Leu Gly Leu Gly His  
 20 25 30

Arg Ser Asp Glu Leu Val Arg Phe Arg Phe Cys Ser Gly Ser Cys Arg  
 35 40 45

Arg Ala Arg Ser Pro His Asp Leu Ser Leu Ala Ser Leu Leu Gly Ala  
 50 55 60

Gly Ala Leu Arg Pro Pro Pro Gly Ser Arg Pro Val Ser Gln Pro Cys  
 65 70 75 80

Cys Arg Pro Thr Arg Tyr Glu Ala Val Ser Phe Met Asp Val Asn Ser  
 85 90 95

Thr Trp Arg Thr Val Asp Arg Leu Ser Ala Thr Ala Cys Gly Cys Leu  
 100 105 110

Gly

<210> 4

<211> 139

<212> PRT

<213> Homo sapiens

<400> 4

Pro Pro Gln Pro Ser Arg Pro Ala Pro Pro Pro Pro Ala Pro Pro Ser  
 1 5 10 15

Ala Leu Pro Arg Gly Gly Arg Ala Ala Arg Ala Gly Gly Pro Gly Ser  
20 25 30

Arg Ala Arg Ala Ala Gly Ala Arg Gly Cys Arg Leu Arg Ser Gln Leu  
35 40 45

Val Pro Val Arg Ala Leu Gly Leu Gly His Arg Ser Asp Glu Leu Val  
50 55 60

Arg Phe Arg Phe Cys Ser Gly Ser Cys Arg Arg Ala Arg Ser Pro His  
65 70 75 80

Asp Leu Ser Leu Ala Ser Leu Leu Gly Ala Gly Ala Leu Arg Pro Pro  
85 90 95

Pro Gly Ser Arg Pro Val Ser Gln Pro Cys Cys Arg Pro Thr Arg Tyr  
100 105 110

Glu Ala Val Ser Phe Met Asp Val Asn Ser Thr Trp Arg Thr Val Asp  
115 120 125

Arg Leu Ser Ala Thr Ala Cys Gly Cys Leu Gly  
130 135

<210> 5  
<211> 819  
<212> DNA  
<213> Homo sapiens

<400> 5  
gagttttcccc tccacacagc taggagccca tgcccggcct gatctcagcc cgaggacagc 60  
ccctccttga ggtccttcct ccccaagccc acctgggtgc cctctttctc cctgaggctc 120  
cacttggtct ctccgcgcag cctgccctgt ggcccacct ggccgctctg gctctgctga 180  
gcagcgtcgc agaggcctcc ctgggctccg cgcccgcag cctgcccc cgcgaggcc 240  
ccccgcctgt cctggcgtec ccgcgcggcc acctgccggg taggtgagag ggcgagggg 300  
cggggcgggg ctggcccggg acaccgcgcg tgactgggtc tcattccagg gggacgcacg 360  
gcccgtggt gcagtggaag agcccggcgg ccgcgcgcgc agccttctcg gcccgcgccc 420  
ccgcgcctg ccccccatc tgctcttccc cgcgggggcc gcgcggcgcg ggctgggggc 480  
ccgggcagcc gcgctcgggc agcgggggcg cggggctgcc gcctgcgctc gcagctggtg 540  
ccggtgcgcg cgctcggcct gggccaccgc tccgacgagc tgggtgcgtt ccgcttctgc 600  
agcggctcct gccgcgcgc gcgctctcca cagcacctca gcctggccag cctactgggc 660  
gccggggccc tgcgaccgcc ccggggctcc cggcccgta gccagccctg ctgccgaccc 720  
acgcgctacg aagcggctct cttcatggac gtcaacagca cctggagaac cgtggaccgc 780  
ctctccgcc ccgcctgcgg ctgctgggc tgagggtc 819

<210> 6  
<211> 85

<212> PRT

<213> Homo sapiens

<400> 6

Met Pro Gly Leu Ile Ser Ala Arg Gly Gln Pro Leu Leu Glu Val Leu  
1 5 10 15

Pro Pro Gln Ala His Leu Gly Ala Leu Phe Leu Pro Glu Ala Pro Leu  
20 25 30

Gly Leu Ser Ala Gln Pro Ala Leu Trp Pro Thr Leu Ala Ala Leu Ala  
35 40 45

Leu Leu Ser Ser Val Ala Glu Ala Ser Leu Gly Ser Ala Pro Arg Ser  
50 55 60

Pro Ala Pro Arg Glu Gly Pro Pro Pro Val Leu Ala Ser Pro Ala Gly  
65 70 75 80

His Leu Pro Gly Arg  
85

<210> 7

<211> 159

<212> PRT

<213> Homo sapiens

<400> 7

Leu Gly Leu Ile Pro Gly Gly Arg Thr Ala Arg Trp Cys Ser Gly Arg  
1 5 10 15

Ala Arg Arg Pro Pro Pro Gln Pro Ser Arg Pro Ala Pro Pro Pro Pro  
20 25 30

Ala Pro Pro Ser Ala Leu Pro Arg Gly Gly Arg Ala Ala Arg Ala Gly  
35 40 45

Gly Pro Gly Ser Arg Ala Arg Ala Ala Gly Ala Arg Gly Cys Arg Leu  
50 55 60

Arg Ser Gln Leu Val Pro Val Arg Ala Leu Gly Leu Gly His Arg Ser  
65 70 75 80

Asp Glu Leu Val Arg Phe Arg Phe Cys Ser Gly Ser Cys Arg Arg Ala  
85 90 95

Arg Ser Pro His Asp Leu Ser Leu Ala Ser Leu Leu Gly Ala Gly Ala

Leu Arg Pro Pro Pro Gly Ser Arg Pro Val Ser Gln Pro Cys Cys Arg  
 115 120 125

Pro Thr Arg Tyr Glu Ala Val Ser Phe Met Asp Val Asn Ser Thr Trp  
 130 135 140

Arg Thr Val Asp Arg Leu Ser Ala Thr Ala Cys Gly Cys Leu Gly  
 145 150 155

<210> 8

<211> 1188

<212> DNA

<213> Homo sapiens

<400> 8

ctgatgggcg ctccctggtgt tgatagagat ggaacttggg cttggaggcc tctccacgct 60  
 gtcccaactgc ccctggccta ggcggcaggt gagtggttct ccagtgact cctacctggt 120  
 actgaggaaa ggcggttga ctggtgaggg agagcagggc ttggcttggg cagcggttag 180  
 gtgtgggagg gaaaatggtc agggagggac caggtgaatg ggaggaggag cgggacttct 240  
 ctgaatggtc ggtgcactca ggtgattcct cccctgggct cccagaggca gcaaaccat 300  
 tatactggaa cctaggccct tcctgagttt cccctccaca cagctaggag cccatgcccg 360  
 gctgatctc agcccagga cagcccctcc ttgaggtcct tcctcccaa gccacactgg 420  
 gtgcctctt tctccctgag gctccacttg gtctctccgc gcagcctgcc ctgtggcca 480  
 ccctggcgc tctggtctg ctgagcagcg tcgagaggc ctccctgggc tccgcgccc 540  
 gcagcctgc ccccgcgaa ggcgcgcgc ctgtcctggc gtcccccgc gccacactgc 600  
 cgggtaggtg agagggcgag gggcggggc ggggctggcc cgggacaccg cgcgtgactg 660  
 ggtctcattc cagggggacg cacggccgc tggcgagtg gaagagcccg gcggccgccc 720  
 ccgcagcctt ctcgcccgcc gcccccgcg cctgcacccc catctgctct tccccgccc 780  
 ggccgcgccc cgcgggctgg gggcccgggc agccgcgctc gggcagcggg ggccgccc 840  
 tgccgcctgc gtcgcagct ggtgccggtg cgcgcgctcg gcctgggcca ccgctccgac 900  
 gagctggtgc gtttccgctt ctgcagcggc tctgcccgc gcgcgcgctc tccacacgac 960  
 ctgagcctgg ccagcctact gggcgccggg gccctgcgac cgcggccggg ctcccgccc 1020  
 gtcagccagc cctgctgccg acccagcgc tacgaagcgg tctccttcat ggacgtcaac 1080  
 agcacctgga gaaccgtgga ccgcctctcc gccaccgct gcggctgcct gggctgagg 1140  
 ctgctccag ggctttgcag actggaccct taccggtggc tcttctg 1188

<210> 9

<211> 228

<212> PRT

<213> Homo sapiens

<400> 9

Met Glu Leu Gly Leu Gly Gly Leu Ser Thr Leu Ser His Cys Pro Trp  
 1 5 10 15

Pro Arg Arg Gln Ala Pro Leu Gly Leu Ser Ala Gln Pro Ala Leu Trp  
 20 25 30  
 Pro Thr Leu Ala Ala Leu Ala Leu Leu Ser Ser Val Ala Glu Ala Ser  
 35 40 45  
 Leu Gly Ser Ala Pro Arg Ser Pro Ala Pro Arg Glu Gly Pro Pro Pro  
 50 55 60  
 Val Leu Ala Ser Pro Ala Gly His Leu Pro Gly Gly Arg Thr Ala Arg  
 65 70 75 80  
 Trp Cys Ser Gly Arg Ala Arg Arg Pro Pro Pro Gln Pro Ser Arg Pro  
 85 90 95  
 Ala Pro Pro Pro Pro Ala Pro Pro Ser Ala Leu Pro Arg Gly Gly Arg  
 100 105 110  
 Ala Ala Arg Ala Gly Gly Pro Gly Ser Arg Ala Arg Ala Ala Gly Ala  
 115 120 125  
 Arg Gly Cys Arg Leu Arg Ser Gln Leu Val Pro Val Arg Ala Leu Gly  
 130 135 140  
 Leu Gly His Arg Ser Asp Glu Leu Val Arg Phe Arg Phe Cys Ser Gly  
 145 150 155 160  
 Ser Cys Arg Arg Ala Arg Ser Pro His Asp Leu Ser Leu Ala Ser Leu  
 165 170 175  
 Leu Gly Ala Gly Ala Leu Arg Pro Pro Pro Gly Ser Arg Pro Val Ser  
 180 185 190  
 Gln Pro Cys Cys Arg Pro Thr Arg Tyr Glu Ala Val Ser Phe Met Asp  
 195 200 205  
 Val Asn Ser Thr Trp Arg Thr Val Asp Arg Leu Ser Ala Thr Ala Cys  
 210 215 220  
 Gly Cys Leu Gly  
 225

<210> 10

<211> 220

<212> PRT

<213> Homo sapiens

<400> 10

Met Glu Leu Gly Leu Gly Gly Leu Ser Thr Leu Ser His Cys Pro Trp  
1 5 10 15

Pro Arg Arg Gln Pro Ala Leu Trp Pro Thr Leu Ala Ala Leu Ala Leu  
20 25 30

Leu Ser Ser Val Ala Glu Ala Ser Leu Gly Ser Ala Pro Arg Ser Pro  
35 40 45

Ala Pro Arg Glu Gly Pro Pro Pro Val Leu Ala Ser Pro Ala Gly His  
50 55 60

Leu Pro Gly Gly Arg Thr Ala Arg Trp Cys Ser Gly Arg Ala Arg Arg  
65 70 75 80

Pro Pro Pro Gln Pro Ser Arg Pro Ala Pro Pro Pro Pro Ala Pro Pro  
85 90 95

Ser Ala Leu Pro Arg Gly Gly Arg Ala Ala Arg Ala Gly Gly Pro Gly  
100 105 110

Ser Arg Ala Arg Ala Ala Gly Ala Arg Gly Cys Arg Leu Arg Ser Gln  
115 120 125

Leu Val Pro Val Arg Ala Leu Gly Leu Gly His Arg Ser Asp Glu Leu  
130 135 140

Val Arg Phe Arg Phe Cys Ser Gly Ser Cys Arg Arg Ala Arg Ser Pro  
145 150 155 160

His Asp Leu Ser Leu Ala Ser Leu Leu Gly Ala Gly Ala Leu Arg Pro  
165 170 175

Pro Pro Gly Ser Arg Pro Val Ser Gln Pro Cys Cys Arg Pro Thr Arg  
180 185 190

Tyr Glu Ala Val Ser Phe Met Asp Val Asn Ser Thr Trp Arg Thr Val  
195 200 205

Asp Arg Leu Ser Ala Thr Ala Cys Gly Cys Leu Gly  
210 215 220

<210> 11

<211> 766

<212> DNA

<213> Homo sapiens



<400> 11

```
ctgatgggcg ctctggtgt tgatagagat ggaacttgga cttggaggcc tctccacgct 60
gtcccactgc ccctggccta ggcggcaggc tccacttggt ctctccgcgc agcctgccct 120
gtggcccacc ctggccgctc tggctctgct gagcagcgtc gcagaggcct ccctgggctc 180
cgcgccccgc agccctgccc cccgcgaagg cccccgcct gtcttggtgt ccccgccgg 240
ccacctgccg gggggacgca cggcccgtg gtgcagtga agagcccggc ggccgcccgc 300
gcagccttct cggcccgcgc cccgcgcgc tgcaccccca tctgctcttc ccccgggggg 360
ccgcgcggcg cgggctgggg gcccgggcag ccgcgctcgg gcagcggggg cgcggggctg 420
ccgcctgcgc tcgcagctgg tgccggtgcg cgcgctcggc ctggggccacc gctccgacga 480
gctggtgcgt ttccgcttct gcagcggtc ctgccgcgc gcgcgctctc cacacgacct 540
cagcctggcc agcctactgg gcgcggggc cctgcgaccg cccccgggct cccggcccgt 600
cagccagccc tgctgccgac ccacgcgcta cgaagcggtc tccttcatgg acgtcaacag 660
cacctggaga accgtggacc gcctctccgc caccgcctgc ggctgcctgg gctgagggt 720
cgctccaggg ctttgacagac tggaccctta ccggtggctc ttcctg 766
```

<210> 12

<211> 742

<212> DNA

<213> Homo sapiens

<400> 12

```
ctgatgggcg ctctggtgt tgatagagat ggaacttgga cttggaggcc tctccacgct 60
gtcccactgc ccctggccta ggcggcagcc tgccctgtgg cccaccctgg ccgctctggc 120
tctgctgagc agcgtcgcag aggcctccct gggctccgcg ccccgagcc ctgccccccg 180
cgaaggcccc ccgctgtcc tggcgctccc cgccggccac ctgccggggg gacgcacggc 240
ccgctggtgc agtgaagag cccggcgggc gcccgcgag ccttctcggc ccgcgcccc 300
gccgcctgca ccccatctg ctcttccccg cgggggcccgc gcggcgcggg ctggggggcc 360
gggcagccgc gctcgggcag cgggggcgcg gggctgccgc ctgcgctcgc agctggtgcc 420
ggtgcgcgcg ctcgccctgg gccaccgctc cgacgagctg gtgcgtttcc gcttctgcag 480
cggctcctgc cgccgcgcgc gctctccaca cgacctcagc ctggccagcc tactgggcgc 540
cggggccctg cgaccgcccc cgggctcccg gcccgtcagc cagccctgct gccgaccac 600
gcgctacgaa gcggtctcct tcattggacgt caacagcacc tggagaaccg tggaccgct 660
ctccgccacc gcctgcggct gcctgggctg agggctcgtc ccagggttt gcagactgga 720
cccttaccgg tggctcttcc tg 742
```

<210> 13

<211> 603

<212> DNA

<213> Homo sapiens

<400> 13

```
ctgatgggcg ctctggtgt tgatagagat ggaacttgga cttggaggcc tctccacgct 60
gtcccactgc ccctggccta ggcggcaggg ggacgcacgg cccgctggtg cagtggaga 120
gcccggcggc cgccgcgcga gccttctcgg cccgcgcccc cgccgctgc accccatct 180
gctcttcccc gcggggggcg cgcggcgcgg gctggggggc cgggcagccg cgctcgggca 240
gcggggggcg ggggctgccg cctgcgctcg cagctggtgc cggcgcgcgc gctcggcctg 300
ggccaccgct ccgacgagct ggtgcgtttc cgcttctgca gcggctcctg ccgcgcgcgc 360
```

cgctctccac acgacctcag cctggccagc ctactgggcg ccggggccct gcgaccgcc 420  
 ccgggtccc ggcccgtcag ccagccctgc tgccgacca cgcgctacga agcgggtctc 480  
 ttcattggacg tcaacagcac ctggagaacc gtggaccgcc tctccgccac cgctctgcgc 540  
 tgcctgggct gagggctcgc tccagggtt tgcagactgg acccttaccg gtggctcttc 600  
 ctg 603

<210> 14

<211> 489

<212> DNA

<213> Homo sapiens

<400> 14

ctgatgggcg ctcttggtgt tgatagagat ggaacttga cttggaggcc tctccacgct 60  
 gtcccactgc ccctggccta ggcggcagcc tgccctgtgg cccaccctgg ccgctctggc 120  
 tctgctgagc agcgtcgcag aggcctccct gggctccgcg ccccgagcc ctgccccccg 180  
 cgaaggcccc ccgctgtcc tggcgcccc cgccggccac ctgccggcgg ctctgcccgc 240  
 cgcgcgcgct ctccacacga cctcagcctg gccagcctac tgggcgcgcg ggccctgcga 300  
 ccgcccccg gctcccggcc cgtcagccag ccctgctgcc gaccacgcg ctacgaagcg 360  
 gtctccttca tggacgtcaa cagcacctgg agaaccgtgg accgcctctc cgccaccgcc 420  
 tgcggctgcc tgggctgagg gctcgtcca gggctttgca gactggaccc ttaccggtgg 480  
 ctcttctg 489

<210> 15

<211> 350

<212> DNA

<213> Homo sapiens

<400> 15

ctgatgggcg ctcttggtgt tgatagagat ggaacttga cttggaggcc tctccacgct 60  
 gtcccactgc ccctggccta ggcggcagcg gctcctgccg ccgcgcgcgc tctccacacg 120  
 acctcagcct ggccagccta ctgggcgcgc gggccctgcg accgcccccg ggtcccggc 180  
 ccgtcagcca gccctgctgc cgaccacgc gctacgaagc ggtctccttc atggacgtca 240  
 acagcacctg gagaaccgtg gaccgcctct ccgccaccgc ctgcggctgc ctgggctgag 300  
 ggctcgtcc agggctttgc agactggacc cttaccggtg gctcttctg 350